



# Hydrogen Sulfide Gas Sensor H2S/S-10000-S

H2S Gas Sensor in Slim Housing

#### **Applications**

- Discontinuous Measurement
- Safety and Process Control

#### **Measurement**

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 10000 ppm
Maximum Overload	20000 ppm
Inboard Filter	-
Output Signal	15 ± 5 nA/ppm
Resolution (Electronics dependent)	< 3 ppm
T90 Response Time	< 40 s
Typical Baseline Range (pure air, 20°C)	-60 ppm to 60 ppm
Maximum Zero Shift (+20°C to +40°C)	10 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain (Only applies to 4-Electrode sensors)	-

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#### Performance data recorded at 20 - 25 °C, 30 - 50% RH, 900 - 1100 mbar





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## **Electrical**

Rec. Load Resistor	10 - 33 Ω
Bias (V_Sens-V_Ref)	not recommended
Conformity to RoHS directive	RoHS Compliance

#### **Environmental**

Relative Humidity Range	15 % to 90 % RH non-condensing
Temperature Range	-40 °C to 50 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	N.D.
Humidity Effect	None

## **Lifetime**

Expected Operation Life	2 years in air
Expected Long Term Output Drift in air	< 2 % signal loss per month
Filter Life	
Storage Life	6 months in container
Rec. Storage Temperature	5°C - 20°C
Warranty Period	12 months from date of dispatch

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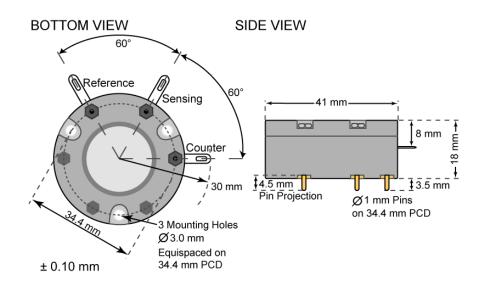
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## Hydrogen Sulfide Gas Sensor H2S/S-10000-S

#### Slim-Size Outline Dimensions



### **Mechanical**

Weight 27 g

Orientation Any

Housing material Polycarbonate

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### **Cross Sensitivity Data**

The table below does not claim to be complete. Interfering gases should not be used for calibration. Please contact Membrapor AG for further support regarding cross sensitivities.

Interfering Gas	Cross-Sens. [%]
CO	< 5
$H_2$	< 1
NO	~ 5
$NO_2$	-20
SO <sub>2</sub>	< 25

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